UNINTERRUPTED POWER
UNINTERRUPTED SERVICE

- UNINTERRUPTED POWER SUPPLY (UPS)
- VOLTAGE STABILIZER
- RECTIFIER - BATTERY CHARGER
- INVERTER
- CONVERTERS
- BATTERIES

SERVO-MATİK®
ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ

www.servomatik.com

Uninterrupted Power
Uninterrupted Service

SERVO-MATİK®

ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ

CE TSE-HYB Universal CERTIFICATION ISO 9001 OHSAS 18001 MADE IN TURKEY

ABOUT US

Since 1990 'Uninterruptible Power Uninterrupted Service'

SERVO-MATIK ELECTRONICS SYSTEMS SAN. Ve TİC.LTD.ŞTI. was established in 1990 with the aim to do domestic production of power electronics in Turkey. We have our own registered trademarks SERVO-MATİK NETPRO Uninterruptible Power Supplies, SERVO-REG Voltage Regulators, SERVO-RED Battery Charge Rectifiers and SERVO-INV Inverters meet ISO 9001 and with 14001 quality assurance engineers and more than 75 personnel, its manufacture in 2500m² indoor area. 'Uninterruptible Power Uninterrupted Service' principle and the SERVO-MATİK research and product development organization which responds to the energy quality problems. With its experienced staff, he has achieved many firsts in many fields of power electronics and has become one of the companies that set the standard.
SERVO-MATİK with engineering experience, has the ability to provide solutions to customers with standard products and in cases where special designs are not available.
Our company which has experience in this field since 1990 has more than 200.000 products on the market. Meet a significant portion of SERVO-MATİK domestic UPS production which is developing continuous R & D work with devices following closely the world of technology and beyond the borders of Turkey, is proud of making export to more than 85 countries. Turkey's support offices in 7 geographic regions and 65 technical service center, 85 countries is Turkey's leading energy solutions company with a sprawling export. We would like to thank you for your support and confidence in our products and designs both at home and abroad as SERVO-MATIC team. We continue to work to provide the highest quality products with the strength and confidence we have received from you,

WHY SERVO-MATİK ?
- 24/7 technical service
- 100% domestic design and production
- Customer oriented approach
- Design and production of best suited products to the specifications which are required by customers directly by R&D engineers of Servo-Matik company
- All products are designed and manufactured by using the latest technology
- Hundreds of references in Turkey and in all around the world...

Sincerely,

SERVO-MATIK Elektronik Sistemler San. Tic. Ltd. Şti.
Ortabayır Mh. Dereboyu Cd. No:110 PK.34413 Servo-matik Binası Gültepe - Kağıthane - İstanbul - Türkiye
Tel: 0212 211 22 85 - 211 98 23 - 356 58 00 - 266 97 77 / Faks: 0212 212 17 93 / info@servomatik.com / www.servomatik.com

Uninterrupted Power
Uninterrupted Service

INDEX

SERVO-BAT SERIES

FULL MAINTENANCE FREE DRY TYPE

SERVO-LINE SERIES

UNINTERRUPTED POWER SUPPLY
650 VA - 2000 VA 1 PHASE INPUT 1 PHASE OUTPUT

SOLAR-INV SERIES

1000 VA -5000 VA 1 PHASE OUTPUT
SOLAR INVERTER

NETPRO-11H SERIES

UNINTERRUPTED POWER SUPPLY
1 KVA - 20 KVA
1 PHASE INPUT 1 PHASE OUTPUT

SERVO-INV SERIES

10 KVA ~ 400 KVA 3 PHASE OUTPUT
600 W ~ 3500 W 1 PHASE OUTPUT
SINUSOIDAL INVERTER

NETPRO-31H SERIES

UNINTERRUPTED POWER SUPPLY
10 ~ 20 KVA
3 PHASE INPUT 1 PHASE OUTPUT

SERVO-RED SERIES

12V ~ 440V / 10A ~ 5000A
RECTIFIER - BATTERY CHARGER

NETPRO-33H SERIES

UNINTERRUPTED POWER SUPPLY
45 ~ 800 KVA
3 PHASE INPUT 3 PHASE OUTPUT

NETPRO-SVR SERIES

5 ~ 50 kVA 1 PHASE INPUT/1 PHASE OUTPUT
15 ~ 3000 kVA 3 PHASE INPUT / 3 PHASE OUTPUT
STATIC VOLTAGE STABILIZER

SERVO-REG SERIES

1 ~ 50 KVA 1 PHASE INPUT/1 PHASE OUTPUT
10,5 ~ 3000 KVA 3 PHASE INPUT / 3 PHASE OUTPUT
MICROPROCESSOR CONTROLLED SERVO VOLTAGE STABILIZER

NETPRO-M SERIES

UNINTERRUPTED POWER SUPPLY
10 ~ 600 KVA
3 PHASE INPUT 3 PHASE OUTPUT

NETPRO-RM SERIES

UNINTERRUPTED POWER SUPPLY
6 ~ 10 KVA RACK MOUNT

NETPRO-33S SERIES

UNINTERRUPTED POWER SUPPLY
10 ~ 40 KVA
3 PHASE INPUT 3 PHASE OUTPUT

CE TSE-HYB Universal CERTIFICATION ISO 9001 OHSAS 18001 TURKEY

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SERVOLINE® Series

650 VA ~ 2000 VA Line Interactive

Uninterruptible Power Supply

GENERAL FEATURES

- Pure Sine Wave Output Online Ups
- Double Conversion Technology
- DSP Microprocessor Controlled
- IGBT Rectifier And Inverter
- Static By-Pass
- Wide Input Voltage Operation Range
- Cold Start Feature
- Input Power Factor Correction (PFC)
- High Efficiency With Energy Saving
- EMI / RFI Filters
- Selectable Input / Output Voltage And Frequency
- Advanced Battery Charger
- Communication With Rs232
- Battery Deep Discharge Protection
- User Friendly Lcd Panel
- High Efficiency With Energy Saving
- Maximum Safety With Cpu Control
- Compact, Light And Quiet Design

Uninterrupted Power
Uninterrupted Service

Capacity	VA	650 VA	1000 VA	1200 VA	1500 VA	2000 VA
INPUT	Voltage Range	172 VAC ~ 286 VAC (1Ph + N)				
	Nominal Frequency	50 ~ 60 Hz				
OUTPUT	Voltage Tolerance	220V AC / 230V AC ± %10 (1Ph + N)				
	Frequency Tolerance	50 / 60 Hz ± %1 (Battery Mode)				
	Voltage Regulation	Increase output voltage by 15% at input voltage range of -10% to -26% Reduced output voltage by 15% at input voltage range of + 10% to + 22%				
	Power Factor	0,6				
	Output Waveform	Modified Sine				
	Output Socket Type	1 - 3 Pcs Socket (Schuko- IEC C13 Type) (Changeable)				
BATTERY	Voltage / Pcs	1 PCS 12VDC 7Ah	1 PCS 12VDC 9Ah	2 PCS 12VDC 7Ah	2 PCS 12VDC 9Ah	
	Type	Full Maintenance Free Dry Type				
	Charge Time	6-8 Hours				
GENERAL	Protection	Short Circuit, Overload, Battery over charge/discharge				
	Transition Time	2-6 ms				
COMMUNICATION	Display	LED				
	Advanced Communication	USB (optional)				
	Software	PC				
ENVIRONMENTAL PROPERTIES	Operation Temperature	-10°C +50°C				
	Relative Humidity	%0 ~ %95 (non-condensing)				
	Altitude	≤ 3000 m				
	Noise	≤ 45 dB				
	Protection Class	IP20				
DIMENSIONS (W x D x H) mm		101 x298x 142	150 X 353 X 162			158x380x198

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NETPRO®-11H Series

1 ~ 20 kVA 1 Phase / 1 Phase

Uninterruptible Power Supply

MARINE EQUIPMENT | OFFICE EQUIPMENS | SOUND & IMAGE SYSTEMS | MEDICAL EQUIPMENT

ELECTRONIC SCALES | LIGHTING SYSTEMS | TV & VIDEO SYSTEMS | ELECTRICAL HOUSE UNIT

GENERAL FEATURES

Pure Sine Wave Output Online Ups
Double Conversion Technology
DSP Microprocessor Controlled
IGBT Rectifier And Inverter
Static By-Pass
Wide Input Voltage Operation Range
Cold Start Feature
Input Power Factor Correction (PFC)
High Efficiency With Energy Saving
EMI / RFI Filters
Selectable Input / Output Voltage And Frequency
Advanced Battery Charger
Communication with RS232
Battery Deep Discharge Protection
User Friendly Lcd Panel
High Efficiency With Energy Saving
Maximum Safety With CPU Control
Compact, Light And Quiet Design

Uninterrupted Power
Uninterrupted Service

100% Made In TURKEY
Environment Friendly Design
Low Installation and Operational Costs
Low Weight&Dimensions
Easy Maintenance and Service
10 Years Spare Part Warranty
7/24 Technical Support and Customer Services

OPTIONAL FEATURES

Advanced Remote Monitoring And Management With SNMP
Long Back Up With External Batteries
Easy Power Up With Paralleling
Galvanic Isolation Transformer
Special Input / Output Options

STANDARDS

EN 62040-1 Safety
EN 62040-2 EMC
EN 62040-3 LVD CE
ISO 9001:2008

CE TSE-HYB Universal CERTIFICATION ISO 9001 OHSAS 18001 MADE IN TURKEY

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NETPRO®-11 H

New Generation
Uninterruptible Power Supply

TECHNICAL SPECIFICATIONS

MODEL	NETPRO - 11H UNINTERUPPTED POWER SUPPLY						
POWER	1 KVA	2KVA	3KVA	6KVA	10KVA	15KVA	20KVA
INPUT							
Nominal Voltage	208V AC / 210V AC / 220V AC / 230V AC / 240V AC (Ph-N)						
Voltage Range	110-295V AC (%50 Load) / 160-260V AC (%100 Load)						
Nominal Frequency	50 Hz / 60 Hz						
Frequency Tolerance	± %10						
Input Power Factor	≥ 0,99						
Total Harmonic Distortion THDi	< %6						
OUTPUT							
Nominal Voltage	208V AC / 210V AC / 220V AC / 230V AC / 240V AC (Ph-N)						
Voltage Telorance	± %1						
Nominal Frequency	50 Hz / 60 Hz						
Frequency Tolerance	%0,2 (Self Synchronize) - %2 (Mains Synchronize)						
Total Harmonic Distortion THDv	< %3 (Linear Load) < %5 (Nonlinear Load)						
Crest Factor	3:1						
Power Factor	0,8						
Output Waveform	Pure Sine						
Overload	%105-%150: 30 s, >%150: 100 ms						
STATIC BYPASS							
Input Volage	208V AC / 210V AC / 220V AC / 230V AC / 240V AC (Ph-N)						
Transition Time	< 4 ms.						
Overload Capacity	%150						
BATTERY							
Pcs / Voltage	2 PCS 12 VDC	4 PCS 12 VDC	6 PCS 12 VDC	16 PCS 12 VDC			
Type	Full Maintenance Free Dry Type						
Charge Current / Temperature Adj.Charge	Selectable / Microprocessor and Smart Sensor Control						
GENERAL							
Operation Technology	On-Line Double Conversion						
Display	LCD / LED						
Control	SPWM Controlled IGBT Rectifier & Inverter						
Efficiency	Up to %93						
Paralleling & Redundancy Feature	Optional						
Protection	Overlaod, Over Temperature, Output Short Circuit						
COMMUNICATION							
Advanced Communication	RS232, Dry Contacts, SNMP , USB,(optional)						
Software	PC Software						
ENVIRONMENTAL PROPERTIES							
Operation Temperature	-10°C +50°C						
Relative Humidity	%0 ~ %95 (non-condensing)						
Altitude	≤ 3000 m						
Noise	≤55 dB						
Protection Class	IP20						
PHYSICAL							
Dimensions (W x D x H) mm	144 x 357 x 215	190 x 452 x 341	262 x 514 x 735	262 x 580 x 628			

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NETPRO®- 31 H Series

10 ~ 20 kVA 3 Phase / 1 Phase

Uninterruptible Power Supply

GENERAL FEATURES

Pure Sine Wave Output Online Ups
Double Conversion Technology
DSP Microprocessor Controlled
IGBT Rectifier And Inverter
Static By-Pass
Wide Input Voltage Operation Range
Cold Start Feature
Input Power Factor Correction (PFC)
High Efficiency With Energy Saving
EMI / RFI Filters
Selectable Input / Output Voltage And Frequency
Advanced Battery Charger
Communication with RS232
Battery Deep Discharge Protection
User Friendly Lcd Panel
High Efficiency With Energy Saving
Maximum Safety With CPU Control
Compact, Light And Quiet Design

Uninterrupted Power
Uninterrupted Service

100% Made In TURKEY
Environment Friendly Design
Low Weight&Dimensions
Low Installation and Operational Costs
Easy Maintenance and Service
10 Years Spare Part Warranty
7/24 Technical Support and Customer Services

OPTIONAL FEATURES

Advanced Remote Monitoring And Management With SNMP
Long Back Up With External Batteries
Easy Power Up With Paralleling
Galvanic Isolation Transformer
Special Input / Output Options

STANDARDS

EN 62040-1 Safety
EN 62040-2 EMC
EN 62040-3 CE
ISO 9001:2008

SERVO-MATİK®
ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ
www.servomatik.com - info@servomatik.com

NETPRO®- 31 H

New Generation
Uninterruptible Power Supply

TECHNICAL SPECIFICATIONS

MODEL	NETPRO - 31H UNINTERUPPTED POWER SUPPLY		
POWER	10 KVA	15 KVA	20 KVA
INPUT			
Nominal Voltage	208V AC / 210V AC / 220V AC / 230V AC / 240V AC (Ph-N) 360V AC / 363V AC / 380V AC / 400V AC / 415V AC (3Ph+N)		
Voltage Range	110-295V AC (%50 Load) / 160-260V AC (%100 Load) (Ph-N) 190-510V AC (%50 Load) / 277-450V AC (%100 Load) (3Ph+N)		
Nominal Frequency	50 Hz / 60 Hz		
Frequency Tolerance	± %10		
Input Power Factor	≥ 0,99		
Total Harmonic Distortion THDi	< %6		
OUTPUT			
Nominal Voltage	208V AC / 210V AC / 220V AC / 230V AC / 240V AC (Ph-N)		
Voltage Tolerance	± %1		
Nominal Frequency	50 Hz / 60 Hz		
Frequency Tolerance	%0.2 (Self Synchronize) - %2 (Bypass Synchronize)		
Total Harmonic Distortion THDv	< %3 (Linear Load), < %5 (Nonlinear Load)		
Crest Factor	3:1		
Power Factor	0,8		
Output Waveform	Pure Sine		
Overload	%105-%150: 30 s, >%150: 100 ms		
STATIC BYPASS			
Input Voltage	208V AC / 210V AC / 220V AC / 230V AC / 240V AC (Ph-N)		
Transition Time	< 4 ms.		
Overload Capacity	%150		
BATTERY			
Psc / Voltage	16 PCS 12 VDC		
Type	Full Maintenance Free Dry Type		
Charge Current / Temperature Adj. Charge	Selectable / Microprocessor and Smart Sensor Control		
GENERAL			
Operation Technology	On-Line double conversion		
Control	SPWM Controlled IGBT rectifier & inverter		
Efficiency	Up to %93		
Paralleling and Redundancy Features	Optional		
Protection	Overlaod, Over Temperature, Output Short Circuit		
COMMUNICATION			
Display	LCD / LED		
Advanced Communication	RS232, Dry contacts, SNMP , USB (optional)		
Software	PC Software		
ENVIRONMENTAL PROPERTIES			
Operation Temperature	-10°C +50°C		
Relative Humidity	%0 ~ %95 (non-condensing)		
Altitude	≤ 3000 m		
Noise	≤ 55 dB		
Protection Class	IP20		
PHYSICAL			
Dimensions (W x D x H) mm	262 x 580 x 712	262 x 580 x 628	

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NETPRO®-33 H Series

45 ~ 800 kVA 3 Phase / 3 Phase

Uninterruptible Power Supply

FACTORIES · HOSPITALS · HOTELS · SERVER ROOMS

SHOPPING CENTERS · INDUSTRIAL APPLICATIONS · EMERGENCY SYSTEMS · MILITARY APPLICATIONS

GENERAL FEATURES

Pure Sine Wave Output Online Ups
Double Conversion Technology
DSP Microprocessor Controlled
IGBT Rectifier And Inverter
Active Input Power Factor Correction PFC (≥ 0.99)
Low Input Thdi (<%3) With Excelent Generator Compatibility
Low Output Thdv<%3-5 Perfect Energy For Loads
Excellent Compatibility With Loads
Adjustable Input/Output Voltage And Frequency
Wide Input Voltage Range (160 - 260 VAC)
High Efficiency Up To %95
Ultra High Efficiency With Smart Eco Mode (%98)
Reliable Parallel/ Redundant Operation With Load Synchronization
Smart Fan Control
EMI / RFI Filter
Short Circuit, High/Low Voltage And Overload Protections
Adjustable Time For Battery Operation
Battery Deep Discharge Protection
Temperature Controllable Battery Charger, Selectable Charge Current
Standard Static And Manual By-Pass
240 X 320 Touch Screen Graphical LCD Display
Advanced Fault Identification, 1000 PCS Alert/Event Memory
Advanced Communication Options With RS232/RS485

100% Made in TURKEY
Environment Friendly Design, The Most Silent in Its Class
Low Installation and Operation Costs
Easy Maintenance and Service
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

Uninterrupted Power
Uninterrupted Service

OPTIONAL FEATURES

Advanced Remote Monitoring And Management With SNMP
4 Programmable Dry Contacts
Easy Scalability With Parallelling
Gprs Modem/Can Bus Communication Options
Microprocessor And Sensor Controlled Smart
Battery Management
Easy Scalability With Parallelling
Galvanic Iolation Transformer
Special Input/Output Options

STANDARDS

EN 62040-1 Safety , EN 62040-2 EMC , EN 62040-3 LVD , CE , ISO 9001:2008

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NETPRO®-33 H | New Generation Uninterruptible Power Supply

TECHNICAL SPECIFICATIONS

Model	NETPRO - 33 H UNINTERRUPTED POWER SUPPLY												
Power (KVA)	45	60	80	100	120	160	200	250	320	400	500	600	800
INPUT													
Nominal Voltage	220V AC / 230V AC / 240V AC (Ph-N) 380V AC / 400V AC / 415V AC (3Ph+N)												
Voltage Range	-%20 / +%15												
Nominal Frequency	50 Hz / 60 Hz												
Frequency Tolerance	± %10												
Input Power Factor	≥ 0,99												
Total Harmonic Distortion THDi	< %5												
OUTPUT													
Nominal Voltage	380 VAC / 400 VAC / 415 VAC (3Ph + N)												
Voltage Tolerance	± %1												
Nominal Frequency	50 Hz / 60 Hz												
Frequency Tolerance	%0.2 (Self Synchronize) - %2 (Bypass Synchronize)												
Total Harmonic Distortion THDv	< %3 (Linear Load) < %5 (Nonlinear Load)												
Crest Factor	3:1												
Power Factor	0,8												
Output Waveform	Pure Sine												
Overload	%100 - %124 : 10 min. / %125 - %150: 1 min.												
STATIC BYPASS													
Input Voltage	220V AC / 230V AC / 240V AC (Ph-N) 380V AC / 400V AC / 415V AC (3Ph+N)												
Transition Time	< 4 ms.												
Overload Capacity	%150												
BATTERY													
Voltage / Pcs	Changeable (Standart 60 pcs12 VDC)												
Type	Full Maintenance Free Dry Type												
Charge Current / Temperature Adj. Charge	Selectable / Microprocessor and Smart Sensor Control												
GENERAL													
Operation Technology	On-Line Double Conversion												
Control	SPWM Controlled IGBT Rectifier & Inverter												
Efficiency	Up to %95												
Paralleling and Redundancy Features	Optional												
Protection	Overload, Over Temperature, Input-Output short circuit												
COMMUNICATION													
Display	240 x 320 Graphical LCD (Touch Screen)												
Warning / Event Memory	1000 Pcs												
Advanced Communication	RS232, Dry Contacts, SNMP , USB,(optional)												
Software	PC Software												
ENVIROMENTAL PROPERTIES													
Operation Technology	-10°C +50°C												
Relative Humidity	%0 ~ %95 (non-condensing)												
Altitude	≤ 3000 m												
Noise	≤ 65 dB												
Protection Class	IP20												
PHYSICAL													
Dimensions (W x D x H) mm	543 x 835 x 1361						1600 x 800 x 1800						

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NETPRO®- 33S Series

10 ~ 40 kVA 3 Phase / 3 Phase

Uninterruptible Power Supply

FABRICS · HOSPITALS · HOTELS · SERVER ROOMS

SHOPPING CENTERS · INDUSTRIAL APPLICATIONS · EMERGENCY SYSTEMS · MILITARY SYSTEMS

GENERAL FEATURES

Pure sine wave output Online UPS
Double conversion technology (double conversion)
DSP microprocessor control improved performance
IGBT rectifier and inverter
Static By-Pass
Wide input voltage range
Start from battery (Cold Start)
Input power factor correction (PFC)
High efficiency and energy saving
EMI / RFI Filtration
Selectable Input / Output Voltage and Frequency
Advanced battery charger
Communication with RS232
Battery deep discharge protection
Easy operation with LCD panel
Energy saving with high efficiency
Maximum security with CPU control
Compact, lightweight, quiet design

Uninterrupted Power
Uninterrupted Service

100% Made in TURKEY
Environment Friendly Design
Low Installation and Operation Costs
Easy Maintenance and Service
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

OPTIONAL FEATURES

Long backup time with additional battery
Easy power increase with parallelism
Galvanic isolation traf
Special input / output options
Advanced remote monitoring and management option with SNMP

STANDARTS

EN 62040-1 Safety
EN 62040-2 EMC
EN 62040-3 LVD
CE, ISO 9001: 2008

CE TSE-HYB Universal CERTIFICATION ISO 9001 OHSAS 18001 MADE IN TURKEY

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NETPRO®- 33 S

New Generation High Frequency
Uninterruptible Power Supply

TECHNICAL SPECIFICATIONS

Model	NETPRO-33 S UNINTERRUPTED POWER SUPPLY				
Power (KVA)	10	15	20	30	40
INPUT					
Nominal Voltage	208V AC / 220V AC / 230V AC / 240V AC (Phase-Neutral) 360V AC / 380V AC / 400V AC / 415V AC (3 Phase + Neutral)				
Voltage Range	-%13 / +% 25				
Nominal Frequency	50 Hz / 60 Hz				
Frequency Tolerance	± %10				
Input Power Factor	≥ 0,99				
Total Harmonic Distortion THDi	≤ %5				
OUTPUT					
Nominal Voltage	380 VAC / 400 VAC / 415 VAC (3Ph+ N)				
Voltage Tolerance	± %1				
Nominal Frequency	50 Hz / 60 Hz				
Frequency Tolerance	%0.2 (Self Synchronize) - %2 (Bypass Synchronize)				
Total Harmonic Distortion THDv	< %3 (Linear Load) < %5 (Nonlinear Load)				
Crest Factor	3:1				
Power Factor	0,8				
Output Waveform	Pure Sine				
Overload	%100 - %124 : 10 min / %125 - %150: 1 min				
STATIC BYPASS					
Input Voltage	220V AC ± % 15 (Ph-N) 380V AC ± % 15 (3Ph+N)				
Transition Time	≤ 4 ms.				
Overload Capacity	%150				
BATTERY					
Pcs / Voltage	20 / 12V				30 / 12V (symmetric)
Type	Full Maintenece Free Dry Type				
Charge Current / Temperature Adj. Charge	Selectable / Microprocessor and Smart Sensor Control				
GENERAL					
Operation Technology	On-Line Double Conversion				
Control	SPWM Controlled IGBT Rectifier & Inverter				
Efficiency	Up to %93				
Paralleling & Redundancy Features	Optional				
Protection	Overlaod, Over Temperature, Output Short Circuit				
COMMUNICATION					
Display	LCD / LED				
Advanced Communication	RS232, Dry Contacts, SNMP , USB,(optional)				
Software	PC Software				
ENVIRONMENTAL PROPERTIES					
Operation Temperature	-10°C ~ +50°C				
Relative Humidity	%0 ~ %95 (non-condensing)				
Altitude	≤ 3000 m				
Noise	≤ 55dB				
Protection Class	IP20				
PHYSICAL					
Dimensions (W x D x H) mm	350 x 785 x 858	350 x 785 x 1078		710 x 470 x 1150	

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NETPRO®-M Series

10 - 600 KVA 3 Phase / 3 Phase

Modular Design UPS

FABRICS · HOSPITALS · HOTELS · SERVER ROOMS

SHOPPING CENTERS · INDUSTRIAL APPLICATIONS · EMERGENCY SYSTEMS · MILITARY SYSTEMS

GENERAL FEATURES

Online UPS with true sinus output
Power increase with modular 10-50 KVA units DSP microprocessor control enhanced performance
Double conversion technology (double conversion)
Hot - Swap design
Output power factor 0.9-1.0
3-Level IGBT Rectifier and Inverter
Active input power factor correction PFC (≥ 0.99)
Superior generator compatibility with low input THDi <3%
High quality energy for your device with low output THDv <1%
Excellent compatibility with loads on different power factors
Adjustable input/output voltage and frequency
Wide input voltage range (175 - 275 VAC)
High efficiency up to 96%
High efficiency with intelligent Eco-Mode (99%)
Reliable parallel/redundant operation with load synchronization
Smart fan control
EMI / RFI filter
Short circuit, high / low voltage and overload protection
Battery start feature (Cold Start)
Adjustable battery run time
Battery deep discharge protection
Temperature controlled battery charge, selectable battery charge current
Standard static and manual By-Pass
Color Touch Screen LCD display
Advanced error/fault detection and warning/event memory
Advanced communication options with RS232/RS485

Uninterrupted Power
Uninterrupted Service

Green Design
High Efficiency With Energy Saving
Compact, Light And Quiet Operation
Service And Installation Facility
Low Installation And Operation Cost
10 Years Spare Part Supply Guarantee
7/24 Technical Support And Customer Service

OPTIONAL FEATURES

Advanced Remote Monitoring And Management With SNMP
Programmable user contacts
Easy power up with paralleling feature
GPRS modem - CAN BUS communication options
Intelligent battery management with microprocessor and sensor control
Galvanic insulation transformer
Special Input/Output Options

STANDARDS

EN 62040-1 Safety , EN 62040-2 EMC , EN 62040-3 LVD , CE, ISO 9001:2008

SERVO-MATİK®
ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ.
www.servomatik.com - info@servomatik.com

NETPRO®-M

Modular Design
Uninterruptible Power Supply

TECHNICAL SPECIFICATIONS

MODEL	**NETPRO-M**
Model	10 - 600 KVA
INPUT	
Nominal Voltage	220V AC / 230V AC / 240V AC (Ph-N) 380V AC / 400V AC / 415V AC (3Ph+N)
Voltage Range	-%40 / +%15
Nominal Frequency	50 Hz / 60 Hz
Frequency Tolerance	40-70 Hz
Input Power Factor	≥ 0,99
Total Harmonic Distortion THDi	≤ 3%
OUTPUT	
Nominal Voltage	220V AC / 230V AC / 240V AC (Ph-N) 380V AC / 400V AC / 415V AC (3Ph+N)
Voltage Tolerance	± 1%
Nominal Frequency	50 Hz / 60 Hz
Frequency Tolerace	% 0,2 (Self Synchronize) - % 2 (Mains Synchronize)
Power Factor	0,9 - 1
Crest Factor	3:1
Total Harmonic Distortion THDv	≤ %1 (Linear Load) ≤ %5 (Nonlinear Load)
Output Waveform	Pure Sine
Overload	% 110 : 60 min , % 125 : 10 min , % 150 : 1 min , > % 150 : 200 ms
STATIC BYPASS	
Input Voltage	220V AC / 230V AC / 240V AC (Ph-N) 380V AC / 400V AC / 415V AC (3Ph+N)
Transition Time	≤ 4 ms.
Overload Capacity	%150
BATTERY	
Pcs / Voltage	40 pcs. / 12 V (Symmetric)
Type	Full Maintenace Free Dry Type
Charge Current Temprature Adj. Charge	Selectable / Microprocessor and Smart Sensor Control
GENERAL	
Operation Technology	On-Line double conversion
Control	SPWM Controlled 3-Level IGBT Rectifier & Inverter
Efficiency	%96 Up To
Paralleling and Redundancy	Optional
Protection	Overload, Over Temperature, Output short circuit
COMMUNICATION	
Display	Color Touch Screen LCD
Advanced Communication	RS232, Dry Contacts, SNMP , USB(optional)
Software	PC Software
ENVIRONMENTAL PROPERTIES	
Operation Temperature	- 10 °C + 50 °C
Relative Humidity	% 0 - % 95 (non-condensing)
Altitude	≤ 3000 m
Noise	≤ 56 dB - ≤ 68 dB
Protection Class	IP20

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NETPRO®-RM series

6 ~ 10 kVA Rack Mount
SINGLE PHASE INPUT-SINGLE PHASE OUTPUT
Uninterruptible Power Supply

GENERAL FEATURES

Pure Sine Wave Output Online Ups
Double Conversion Technology
DSP Microprocessor Controlled
IGBT Rectifier And Inverter
Static By-Pass
Wide Input Voltage Operation Range
Cold Start Feature
Input Power Factor Correction (PFC)
High Efficiency With Energy Saving
EMI / RFI Filters
Selectable Input / Output Voltage And Frequency
Advanced Battery Charger
Communication with RS232
Battery Deep Discharge Protection
User Friendly Lcd Panel
High Efficiency With Energy Saving
Maximum Safety With CPU Control
Compact, Light And Quiet Design

Uninterrupted Power
Uninterrupted Service

OPTIONAL FEATURES

Advanced Remote Monitoring And Management With SNMP
Long Back Up With External Batteries
Easy Power Up With Paralleling
Galvanic Isolation Transformer
Special Input / Output Options

STANDARTLAR

EN 62040-1 Safety
EN 62040-2 EMC
EN 62040-3 LVD
CE, ISO 9001:2008

True Online Double Conversion design based NETPRO-RM Series UPS provide sensitive protection for critical loads.

At most unfavorable mains conditions with wide input voltage range, with fast response to voltage surge and spikes, and with perfect output characteristics protection for your servers and workstations is provided.

SERVO-MATİK®
ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ
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NETPRO® - RM | Rack Mount UNINTERUPPTED POWER SUPPLY

TECHNICAL SPECIFICATIONS

MODEL	NETPRO - RM UNINTERUPPTED POWER SUPPLY	
POWER	6KVA	10KVA
INPUT		
Nominal Voltage	208V AC / 220V AC / 230V AC / 240V AC (Ph-N)	
Voltage Range	115-295V AC (%50 Load) / 160-260V AC (%100 Load)	
Nominal Frequency	50 Hz / 60 Hz	
Frequency Tolerance	± %10	
Input Power Factor	≥ 0,99	
Total Harmonic Distortion THDi	≤ %6	
OUTPUT		
Nominal Voltage	208V AC / 210V AC / 220V AC / 230V AC / 240V AC (Faz-Nötr)	
Voltage Tolerance	± %1	
Nominal Frequency	50 Hz / 60 Hz	
Frequency Tolerance	%0.2 (Self Synchronize) - %2 (Bypass Synchronize)	
Total Harmonic Distortion THDv	< %3 (Linear Load) < %5 (Nonlinear Load)	
Crest Factor	3:1	
Power Factor	0,8	
Output Waveform	Pure Sine	
Overload	%105-%150: 30 s. / >%150: 100 ms.	
STATIC BYPASS		
Input Voltage	208V AC / 220V AC / 230V AC / 240V AC (Ph-N)	
Transition Time	< 4 ms.	
Overload Capacity	%150	
BATTERY		
Voltage / Pcs	16 PCS 12 VDC	
Type	Full Maintenance Free Dry Type	
Charge Current / Temperature adj. Charge	Selectable / Microprocessor and Smart Sensor Control	
GENERAL		
Operation Technology	On-Line Double Conversion	
Control	SPWM Contorlled IGBT Rectifier & Inverter	
Efficiency	Up to %93	
Paralleling and Redundancy Features	Optional	
Protection	Overload, Over Temperature, Output short circuit	
COMMUNICATION		
Display	LCD / LED	
Advanced Communication	RS232, Dry Contacts, SNMP , USB,(optional)	
Software	PC Sofware	
ENVIRONMENTAL PROPERTIES		
Operation Temperature	-10°C +50°C	
Relative Humidity	%0 ~ %95 (non-condensing)	
Altitude	≤ 3000 m	
Noise	≤55 dB	
Protection Class	IP20	
PHYSICAL		
Dimensions (W x D x H) mm	440 x 565 x 132	

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SERVO-REG® Series

1 ~ 50 kVA Microprocessor Controlled
SINGLE PHASE INPUT-SINGLE PHASE OUTPUT

Servo Voltage Stabilizer

TRANSPORT COMPANIES
INDUSTRIAL FACILITIES
CINEMA & THEATERS
MILITARY FACILITIES
INDUSTRIAL APPLICATIONS
RADIO & TV SYSTEMS
FUEL STATIONS
HOUSE AND APARTMENTS

GENERAL FEATURES

Automatic Servo Voltage Stabilizer
High Reliability With Digital Microprocessor Controlled
Wide Power Options For Single Phase Systems
Advanced Motor Controlled Topology
Wide Input Voltage Operation Range
1% Tolerance For Output Voltage
Real RMS Measurement And Feedback
The Best In its Class with 50-200 V/Sn Regulation Speed
20 Ms Recovery Time
Short Circuit, High/Low Voltage And Overload Protection
Lightning Protection
Manual Bypass Breaker
Adjustable Output Voltage Via Panel
LCD/LED Display Screen
Programming Via Digital Control Panel
Audible And Visual Warning System
Up To %98 High Efficiency
Continuous Automatic System Control
Smart Fan Control
Advanced Fault Identification, Alert/Event Memory

Uninterrupted Power
Uninterrupted Service

%100 Made in TURKEY
Environment Friendly Design
Small Dimensions
Easy Installation/Maintenance and Service
Low Installation and Operational Costs
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

OPTIONAL FUTURES

Advanced Remote Monitoring And Management With RS485
LCD Display Screen
Protection With Contactor
Galvanic Isolation Transformer
Special Input/Output Options

STANDARDS

EN 60335 , CE, ISO 9001:2008

SERVO-MATİK®
ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ.
www.servomatik.com - info@servomatik.com

SERVO-REG®

SINGLE PHASE INPUT-SINGLE PHASE OUTPUT

Microprocessor Controlled Servo Voltage Stabilizers

SUPERIOR FEATURES

SERVO-REG Series Servo Regulators are microprocessor controlled advanced technology stabilizers and operation technology is based on Pulse Width Modulation.

Microprocessor and pulse width modulation provides enhanced control on the servo motor and this offers the best dynamic response to the input disturbances and increases the speed for the system. The design provides extended lifetime for the system and reduces total cost of ownership.

In three phase regulators , each phase is controlled independently so that the load connected to the output is supplied continuously even if there exists unequal voltages in phases and unbalanced load at input and output.

SERVO-REG Series are 100% made in TURKEY and all the components inside has international certificates and compatible with international standards, 1 year standart warranty and 10 years spare parts availability is what comes with SERVO-REG Series stabilizers

TECHNICAL SPECIFICATIONS

Model	SERVO-REG SERVO VOLTAGE STABILIZER - SINGLE PHASE INPUT-SINGLE PHASE OUTPUT									
Nominal Power	1	3,5	5	7,5	10	15	20	30	40	50
INPUT										
Voltage	220/230/240V AC (1Ph+N)									
Voltage Regulation Range	130-270V AC / 130- 230V AC / 160- 255V AC / 180-245V AC / Custom ranges (1Ph+N)									
Operation Frequency	45 - 65 Hz									
OUTPUT										
Voltage	220/230/240V AC (1Ph+N)									
Regulation	%1-%2 (adjustable)									
Regulation Speed	90-150V/s									
Overload	%100 - 125 Load 10 min, %126-150 Load 60 s,%151-199 Load 10 s, %200 Load 3 s.									
GENERAL										
Operation Technology	Microprocessor Controlled, Full Otomatic Servo									
Control	RISC Microprocessor, H-Bridge MOSFET PWM Motor Driver , Triac Controlled									
Efficiency	Up to %98									
Mechanical Bypass	Network- Regulated Voltage Select CAM Switch									
Ventilation System	Fan cooling system with temperature control (optional)									
Protection	Output Overload, Output Short Circuit, Output High/Low Voltage, Ground-N Protection (optional)									
CONTROL PANEL										
Display	LED Display / 2x16 LCD (Optional)									
Monitor Measured Values	Input/output Voltage, Output Frequency and Output Current									
COMMUNICATIONS										
Dry Contact	Regulator Normal Operation (NO,C,NC); High/Low Output Voltage Alarm (NO,C,NC) (optional)									
Remote Monitoring	Internet and Network Monitoring , RS 485 (optional)									
ENVIRONMENTAL PROPERTIES										
Operation Temperature	-10°C +50°C									
Relative Humidity	<%0 - %95 (non-condensing)									
Altitude	≤ 3000 m									
Noise	≤ 50dB									
Protection Class	IP20									
PHYSICAL										
Dimensions (W x D x H) mm	360 x 450 x 320			600 x 440 x 300			500 x 600 x 860			

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SERVO-REG® Series

10,5 KVA - 3000 KVA SERVO-REG SERIES
THREE PHASE INPUT-THREE PHASE OUTPUT

Servo Voltage Stabilizer

TRANSPORT COMPANIES | INDUSTRIAL FACILITIES | CINEMA & THEATERS | MILITARY FACILITIES

INDUSTRIAL APPLICATIONS | RADIO & TV SYSTEMS | FUEL STATIONS | HOUSE AND APARTMENTS

GENERAL FEATURES

Automatic Servo Voltage Stabilizer
High Reliability With Digital Microprocessor Controlled
Wide Power Options For Three Phase Systems
Advanced Motor Controlled Topology
Wide Input Voltage Operation Range
1% Tolerance For Output Voltage
Real RMS Measurement And Feedback
The Best in its Class with 50-200 V/Sn Regulation Speed
20 Ms Recovery Time
Short Circuit, High/Low Voltage And Overload Protection
Lightning Protection
Manual By-Pass Breaker
Adjustable Output Voltage Via Panel
LCD/LED Display Screen
Programming Via Digital Control Panel
Audible And Visual Warning System
Up To %98 High Efficiency
Continuous Automatic System Control
Smart Fan Control
Advanced Fault Identification, Alert/Event Memory

%100 Made in TURKEY
Environment Friendly Design
Small Dimensions
Easy Installation/Maintenance and Service
Low Installation and Operational Costs
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

Uninterrupted Power
Uninterrupted Service

OPTIONAL FEATURES

Advanced Remote Monitoring And Management With RS485
LCD Display Screen
Protection With Contactor
Galvanic Isolation Transformer
Special Input/Output Options

STANDARDS

EN 60335 , CE, ISO 9001:2008

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SERVO-REG®

THREE PHASE INPUT-THREE PHASE OUTPUT

Microprocessor Controlled Servo Voltage Stabilizers

SUPERIOR FEATURES

SERVO-REG Series Servo Regulators are microprocessor controlled advanced technology stabilizers and operation technology is based on Pulse Width Modulation.

Microprocessor and Pulse width modulation provides enhanced control on the servo motor and this offers the best dynamic response to the input disturbances and increases the speed for the system. The design provides extended lifetime for the system and reduces total cost of ownership.

Each phase is controlled independently so that the load connected to the output is supplied continuously even if there exists unequal voltages in phases and unbalanced load at input and output.

SERVO-REG Series are 100% made in TURKEY and all the components inside has international certificates and compatible with international standards, 1 year standart warranty and 10 years spare parts availability is what comes with SERVO-REG Series stabilizers

TECHNICAL SPECIFICATIONS

Model	SERVO-REG SERVO VOLTAGE STABILIZER - THREE PHASE INPUT- THREE PHASE OUTPUT								
Nominal Power (kVA)	10.5-30	45	60-100	120-150	200-300	400-600	800-1250	1500-2000	2500-3000
INPUT									
Voltage	220/230/240V AC (1Ph+N) / 380/400/415AC (3Ph+N)								
Voltage Regulation Range	130-270V AC / 130- 230V AC / 160- 255V AC / 180-245V AC / Costum Range (1Ph+N)								
Nominal Frequency	45 - 65 Hz								
OUTPUT									
Voltage	220/230/240V AC (Ph+N) / 380/400/415AC (3Ph+N)								
Regulation Speed	90- 150V/s								
Regulation	%1-%2 (Adjustable)								
Overload	%100 - 125 Load 10 min, %126-150 Load 60 s,%151-199 Load 10 s, %200 Load 3 s.								
GENERAL									
Operation Technology	Microprocessor Controlled, Full Otomatic Servo								
Control	RISC Microprocessor, H-Bridge MOSFET PWM Motor Driver, Triac Controlled								
Efficiency	Up to %98								
Mechanical Bypass	Network- Regulated Voltage Select CAM Switch								
Ventilation System	Fan cooling system with temperature control								
Protection	Output Overload, Output Short Circuit, Output High/Low Voltage, Ground-N Protection (optional)								
CONTROL PANEL									
Display	LED Display / 2x16 LCD (Optional)								
Monitor Measured Values	Input/output Voltage, Output Frequency and Output Current								
COMMUNICATION									
Dry Contact	Regulator Normal Operation (NO,C,NC); High/Low Output Voltage Alarm (NO,C,NC) (Optional)								
Remote Monitoring	Internet and Network Monitoring , RS 485 (optional)								
ENVIRONMENTAL PROPERTIES									
Operation Temperature	-10°C +50°C								
Relative Humidity	<%0 - %95 (non-condensing)								
Altitude	≤ 3000 m								
Noise	≤ 55dB								
Protection Class	IP20								

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NETPRO-SVR® Series

5 ~ 50 kVA 1 PHASE INPUT-1PHASE OUTPUT

STATIC VOLTAGE STABILIZER

TRANSPORT COMPANIES | INDUSTRIAL FACILITIES | CINEMA & THEATERS | MILITARY FACILITIES

INDUSTRIAL APPLICATIONS | RADIO & TV SYSTEMS | FUEL STATIONS | HOUSE AND APARTMENTS

GENERAL FEATURES

Static Voltage Regulator
High Reliability With Digital Microprocessor Control
Low Maintenance Cost With Semiconductor Technology
Wide Power Options In Single -Phase Systems
Wide Input Voltage Operating Range
Independent Phase Regulation
Adjustable Output Voltage 2% - 5% Tolerance
Real Rms Measurement And Feedback
500 V/S - 700 V/S Correction Speed, The Best In Its Class Type
20ms Recovery Time
Short Circuit, High/Low Voltage And Overload Protection
Lightning Protection
Manual Bypass Switch
Phase Protection
Adjustable Output Voltage Value Via Panel
LCD Display Screen
Programming Via Digital Control Panel
Audible And Visual Warning System
Power Mimic Diagram Showing Simple Operation Status

Uninterrupted Power
Uninterrupted Service

%100 Made in TURKEY
Environment Friendly Design
Small Dimensions
Easy Installation/Maintenance and Service
Low Installation and Operational Costs
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

OPTIONAL FEATURES

RS485 enhanced remote monitoring
Galvanic insulation Transformers
Special input/output design options

STANDARDS

EN 60335
CE, ISO 9001:20

SERVO-MATİK®
ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ.
www.servomatik.com - info@servomatik.com

NETPRO-SVR®

STATIC VOLTAGE STABILIZER

SINGLE PHASE INPUT-SINGLE PHASE OUTPUT

SUPERIOR FEATURES

Microprocessor controlled NETPRO-SVR regulates the input disturbances in miliseconds by means of its advanced design.

It doesn't include any moving parts so that no maintenance or replacement needed.

High performance microprocessor control and state of the art of the electronics feedback algorithm delivers the best protection when high/low voltage, over current, over temperature and short circuit occurs.

Standard EMI&RFI filters provides best protection againist electrical disturbances for your load

Gives the best response for the loads with high inrush currents via the semiconductor components which are resistant to high currents about 100% of the nominal current in 20 ms.

NETPRO-SVR transfers the power with zero crossing method so that it delivers no harmonics to the load by means of static components with Step-Up / Step-Down

TECHNICAL SPECIFICATIONS

Model	**NETPRO - SVR**							
Phase	SINGLE PHASE							
Nominal Power	5 KVA	7.5 KVA	10 KVA	15 KVA	20 KVA	30 KVA	40 KVA	50 KVA
INPUT								
Voltage	220/230/240V AC (Ph+N)							
Voltage Regulation Range	130-270V AC / 160-250V AC / Custom ranges							
Operation Frequency	45 - 65 HZ							
OUTPUT								
Voltage	220/230/240V AC (Ph+N)							
Regulation Speed	500 V/s - 700V/s							
Regulation	%2-5 (Adjustable)							
Overload	%100 - 125 Load 10 min, %126-150 Load 60 s,%151-199 Load 10 s, %200 Load 3 s.							
GENERAL								
Operation Technology	RISC Microprocessor Control, Full Automatic, Consisting of Static Semiconductors, Does not contain moving parts and free maintenance							
Efficiency	≤%98							
Protection	Short Circuit, Electronic Protection of Over Current, Overvoltage on the set value closes the output							
Mechanical Bypass	Network- Regulated Voltage Select CAM Switch							
CONTROL PANEL								
Display	2x16 Character LCD Screen							
Monitor Measured Values	Output Voltage, Network Voltage, Load Percentage / Current							
Warning Massages	Low Input / High Input, Low Output / High Output, Overload (> %100), High Temperature							
COMMUNICATION								
Dry Contact	Regulator Normal Operation (NO,C,NC); High/Low Output Voltage Alarm (NO,C,NC) (Optional)							
Remote Monitoring	Internet and Network Monitoring, RS 485 (Optional)							
ENVIRONMENTAL PROPERTIES								
Operation Temperature	-10°C +50°C							
Relative Humidity	%0 ~ %95 (non-condensing)							
Altitude	≤ 3000 m							
Noise	≤ 50 dB							
Protection Class	IP20							
PHYSICAL								
Dimensions (W x D x H) mm	295x450x470		320x560x550					

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NETPRO-SVR® Serisi

15 ~ 3000 kVA 3 PHASE INPUT / 3 PHASE OUTPUT

STATIC VOLTAGE STABILIZER

TRANSPORT COMPANIES | INDUSTRIAL FACILITIES | CINEMA & THEATERS | MILITARY FACILITIES

INDUSTRIAL APPLICATIONS | RADIO & TV SYSTEMS | FUEL STATIONS | HOUSE AND APARTMENTS

GENERAL FEATURES

Static Voltage Regulator
High Reliability With Digital Microprocessor Control
Low Maintenance Cost With Semiconductor Technology
Wide Power Options In Three-Phase Systems
Wide Input Voltage Operating Range
Independent Phase Regulation
Adjustable Output Voltage 2% - 5% Tolerance
Real Rms Measurement And Feedback
500 V/S - 700 V/S Correction Speed, The Best In Its Class Type
20ms Recovery Time
Short Circuit, High/Low Voltage And Overload Protection
Lightning Protection
Manual By-Pass Switch
Phase Protection
Adjustable Output Voltage Value Via Panel
Lcd Display Screen
Programming Via Digital Control Panel
Audible And Visual Warning System
Power Mimic Diagram Showing Simple Operation Status

Uninterrupted Power
Uninterrupted Service

%100 Made in TURKEY
Environment Friendly Design
Small Dimensions
Easy Installation/Maintenance and Service
Low Installation and Operational Costs
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

OPTIONAL FEATURES

RS485 enhanced remote monitoring
Galvanic insulation Transformers
Special input/output design options

STANDARDS

EN 60335 , CE , ISO 9001:2008

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ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ.
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NETPRO-SVR®

STATIC VOLTAGE STABILIZER

THREE PHASE INPUT-THREE PHASE OUTPUT

SUPERIOR FEATURES

Microprocessor controlled NETPRO-SVR regulates the input disturbances in miliseconds by means of its advanced design.

It doesn't include any moving parts so that no maintenance or replacement needed.

High performance microprocessor control and state of the art of the electronics feedback algorithm delivers the best protection when high/low voltage, over current, over temperature and short circuit occurs.

Standard EMI&RFI filters provides best protection against electrical disturbances for your load

Gives the best response for the loads with high inrush currents via the semiconductor components which are resistant to high currents about 100% of the nominal current in 20 ms.

NETPRO-SVR transfers the power with zero crossing method so that it delivers no harmonics to the load by means of static components with Step-Up / Step-Down

TECHNICAL SPECIFICATIONS

Model	**NETPRO - SVR**						
Phase	Three Phase						
Nominal Power (KVA)	15-60	75-150	200-250	300-500	600-1250	1500-2000	2500-3000
INPUT							
Voltage	220/230/240V AC (1Ph+N) / 380/400/415AC (3Ph+N)						
Voltage Regulation Range	130-270V AC / 160-250V AC / Custom ranges						
Nominal Frequency	45 - 65 HZ						
OUTPUT							
Voltage	220/230/240V AC (Ph+N) / 380/400/415AC (3Ph+N)						
Regulation Speed	500 V / s -700 V / s						
Regulation	%2 - % 5 (Adjustable)						
Overload	%100 - 125 Load 10 min, %126-150 Load 60 s,%151-199 Load 10 s, %200 Load 3 s.						
GENERAL							
Operation Technology	RISC Microprocessor Control, Full Automatic, Consisting of Static Semiconductors, Does not Contain Moving Parts and Free Maintenance						
Efficiency	≤%98						
Protection	Short Circuit, Electronic Protection of Over Current, Overvoltage on the set value closes the output						
Mechanical Bypass	Network- Regulated Voltage Select CAM Switch						
CONTROL PANEL							
Display	2x16 Character LCD Screen						
Monitor Measured Values	Output Voltage, Network Voltage, Load Percentage / Current						
Warning Massages	Low Input / High Input, Low Output / High Output, Overload (> %100), High Temperature						
COMMUNICATION							
Dry Contact	Regulator Normal Operation (NO,C,NC); High/Low Output Voltage Alarm (NO,C,NC) (Optional)						
Remote Monitoring	Internet and Network Monitoring , RS 485 (optional)						
ENVIRONMENTAL PROPERTIES							
Operation Temperature	-10°C +50°C						
Relative Humidity	%0 ~ %95 (non-condensing)						
Altitude	≤ 3000 m						
Noise	≤ 55dB						
Protection Class	IP20						

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SERVO-RED® Series

12V ~ 440V / 10A ~ 5000A

DC Power Supply - Battery Charger

SEA VEHICLES | RAIL VEHICLES | AIR VEHICLES | TELECOM SYSTEMS

LIGHTING SYSTEMS | ALARM SYSTEMS | WIND TRIBUNES | SOLAR PANELS

GENERAL FEATURES

Uninterrupted Power
Uninterrupted Service

Battery Charger Devices/ Rectifiers
High Reliability With Digital Microprocessor Controlled
Thyristor Controlled And Switch Mode (SMPS) Topology
Long Battery Life With Low Output Ripple
Wide Input Voltage Operation Range
Galvanic Plating Rectifier , Copper , Nickel , Zinc , Chromium and etc.
Transformer Center Type built-in Battery Rectifier Transformer, Energy, Tellecommunication Centers
Could Be Used As DC Power Supply And Battery Charger
Real RMS Measurement And Feedback
Automatic Adjustable Charge According To Battery Type
Advanced Communication Options, Modbus Automation Availability
Short Circuit, High/Low Voltage And Overload Protection
Lightning Protection
Special Designs With Multiple Output
Adjustable Charging Current And Voltage Via Display
LCD Display Screen
Programmable Via Digital Control Panel
Audible And Visual Warning System With Mimic Diagram
High Efficiency With Energy Saving
Continuous Automatic System Control
Smart Fan Control
Advanced Fault Identification, Alert/Event Memory

100% Made in Turkey
Esthetical Appearance, Modular Design
Silent Operation, Environment Friendly Design
Easy Installation/Maintenance/Service
Low Installation and Operation Cost
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

Transformer Kiosk Type Internal Battery Rectifier

Dropper Rectifier/Battery Charger

Galvanic Plating Rectifier

Transformer Type SMPS Rectifier/Battery Charger

OPTIONAL FEATURES

View Over Ethernet
Advanced Control And Monitoring With RS485 Modbus RTU
DC Earth Leakage Current Protection Relay
Dropper Diode Design For Constant Load
Dry Contact Outputs
Special Input/Output Options

STANDARDS

EN 60335 , CE, ISO 9001:2008

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ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ.
www.servomatik.com - info@servomatik.com

TECHNICAL SPECIFICATIONS

MODEL	SERVO-RED RECTIFIER - BATTERY CHARGER SINGLE PHASE	SERVO-RED RECTIFIER - BATTERY CHARGER THREE PHASE
INPUT		
Nominal Voltage	220 VAC / 230 VAC / 240 VAC	380 VAC / 400 VAC / 415 VAC
Voltage Tolerance	- %15 / + %20	
Nominal Frequency	50 / 60 Hz	
Frequency Tolerance	± %10	
Input Power Factor	0,7 - 0,8 - 0,9	0,8 - 0,9
OUTPUT		
Nominal Voltage	12 V - 220 V	12 V - 440 V
Nominal Current	10 A - 5000 A	
Max. Output Current	Up to 110% of nominal output current	
Boost Charge Voltage	Up to 120% of rated output voltage	
Output Ripple%	%1 - % 5	
Over Current Protection	Up to 200% 10 ms	
GENERAL FEATURES		
Operation Technology	Microprocessor controlled	
Control	High frequency PWM technique, IGBT technology / Switch mode technology / Thyristor Controlled	High frequency PWM technique, IGBT technology / Switch mode technology / Thyristor Controlled - 6 Pulse -12 Pulse (Optional)
Efficiency	%88 Up To	%90 Up To
Protection	Input- Output Fuse , Over Voltage,Over Load,Short Circuit, Low Voltage ,DC Leakage	
Battery Charge Mode	Boost Charge, Float Charge, Equalizing Charge	
Isolation	Output-Input 1500V, Input-Output-Chassis 500V	
CONTROL PANEL		
Display	4x20 Character LCD Panel	
Warning Massages	LED Alerts / Warning Event Memory	
COMMUNICATION		
Dry Contact	Normal Operation , High/Low Output Voltage Alarm (NO,C,NC) (Optional)	
Remote Monitoring	Communication with PC via RS485 (Optional), Remote traceability by giving TCP / IP number (Optional)	
ENVIRONMENTAL PROPERTIES		
Operation Temperature	-10°C ~ +50°C	
Relative Humidity	%0 ~ %95 (non-condensing)	
Altitude	≤ 3000 m	
Noise	≤ 60 dB	≤ 55 dB
Protection Class	IP20	

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SERVO-INV®

10 KVA - 400 KVA
THREE PHASE OUTPUT
SINUSOIDAL INVERTER

GENERAL FEATURES

Pure Sinusoidal Waveform Inverter
High Frequency SPWM
Enhanced Performance DSP Microprocessor Control
Inverter Design With IGBT
High Quality Energy With Low Output Thdv (Thdv <3%)
Excellent Adjustment With Loads On Different Power Factors
Wide Input DC Voltage Range (630V ~ 820V)
High Efficiency Up To 95%
Smart Fan Control
EMI / RFI Filter
Short Circuit, High / Low Voltage And Overload Protection
Cold Start
240 X 320 Touch Graphic LCD Display
Advanced Error/Fault Detection, 1000 Warning/Event Memory
Advanced Communication Options With RS232 / RS485

100% Made in TURKEY
Environment Friendly Design
Smallest Dimensions, Silent Operation
Easy Installation and Service
Low Installation and Operational Costs
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

Uninterrupted Power
Uninterrupted Service

OPTIONAL FEATURES

SNMP Advanced Remote Monitoring And Management Option
4 Programmable User Contacts
GPRS Modem - CAN BUS Communication Options
Galvanic Insulation Transformers
Special Input / Output Options

STANDARTLAR

EN 62040-1 Security
EN 62040-2 EMC
EN 62040-3 LVD
CE, ISO 9001: 2008

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ELEKTRONİK SİSTEMLER SAN. ve TİC. LTD. ŞTİ
www.servomatik.com - info@servomatik.com

TECHNICAL SPECIFICATIONS

MODEL	SERVO-INV SINUSODIAL INVERTER												
NOMINAL POWER	10KVA	15KVA	20KVA	30KVA	45KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	320KVA	400KVA
INPUT														
Nominal Voltage	630 ~ 820 VDC													
No Load Current	≤ 1,9 A													
OUTPUT														
Nominal Voltage	380 VAC / 400 VAC / 415 VAC (3Ph+N)													
Voltage Tolerance	± %1													
Nominal Frequency	50 Hz / 60 Hz ± % 0,2													
Crest Factor	3:1													
Power Factor	0,8													
Total Harmonic Distortion THDv	< %3 (Linear Load) < %5 (Nonlinear Load)													
Output Waveform	Full Sine													
Overload	%100 - %124 : 10 min. / %125 - %150: 1 min.													
GENERAL														
Operation Technology	Microprocessor													
Control	High frequency PWM technique, IGBT technology													
Efficiency	%95 Up To													
Protection	Input Fuse, Over Voltage Outpur, Reverse Current, Short Circuit, Load Protection with Fast Fuse													
COMMUNICATION														
Display	240 x 320 Graphical LCD (Touch Screen)													
Alarm / Event	1000 Pcs													
Remote Monitoring	(RS232, GPRS , Dry Contact, SNMP) (Optional)													
Software	PC Software													
ENVIRONMENTAL PROPERTIES														
Operation Temperature	-10°C ~ 50°C													
Relative Humidity	%0 ~ %95 (non-condensing)													
Altitude	≤ 3000 m													
Noise	≤ 65dB													
Protection Class	IP20													
PHYSICAL														
Dimensions (W x D x H) mm	440x785x1200				543x835x1361						1600x800x1800			

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SOLAR-INV

1000 VA -5000 VA SOLAR-INV SERIES
SINGLE PHASE OUTPUT

GENERAL FEATURES

Pure Sinusoidal Waveform Inverter
High Frequency SPWM, Off-Grid
DSP Microprocessor Control Enhanced Performance
High Quality Energy With Low Output Thdv (Thdv <3%)
Excellent Adjustment With Loads On Different Power Factors
MPPT PWM Charge Control Units
High Efficiency Up To 95%
Smart Fan Control
EMI / RFI Filter
Short Circuit, High / Low Voltage And Overload Protection
LCD Screen
Advanced Error/Fault Detection, Optional Features
Galvanic Insulation Transformers
Special Input/Output Options
Charge Control Devices

Uninterrupted Power
Uninterrupted Service

Green Design
High Efficiency With Energy Saving
Compact, Light And Quiet Operation
Service And Installation Facility
Low Installation And Operation Cost
10 Years Spare Part Supply Guarantee
7/24 Technical Support And Customer Service

OPTIONAL FUTURES

Galvanic Insulation Transformers
Special Input/Output Options
Charge Control Devices

STANDARDS

EN 62040-1 Security ,EN 62040-2 EMC ,EN 62040-3 LVD ,CE, ISO 9001: 2008

CE TSE-HYB Universal CERTIFICATION ISO 9001 OHSAS 18001 TURKEY

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SOLAR-INV | Solar Inverter

TECHNICAL SPECIFICATIONS

Model	SOLAR - INV SOLAR INVERTER				
Power	1000VA	2000VA	3000VA	4000VA	5000VA
INPUT					
Nominal Voltage	220 VAC / 230VAC / 240 VAC				
Frequency	50 Hz / 60 Hz				
OUTPUT					
Nominal Voltage	220 VAC / 230VAC / 240 VAC ± %5				
Frequency	50 Hz / 60 Hz				
Power Factor	0,8				
Efficiency	≤ %95				
Total Harmonic Distortion THDv	≤ %5				
Transition Time	10 ms				
Output Waveform	Pure Sine				
DC OUTPUT - BATTERY					
Stand-by Power	≤ 2W				
Voltage	12VDC	24VDC		48VDC	
Charge Current	20A	20A-30A		60A	
Open Circuit Voltage	40VDC	60VDC		105VDC	
Solar Charge Current	50A	50A		50A	
Float Voltage	13.5 VDC / Battery				
GENERAL					
Operation Technology	Microprocessor Controlled				
Advanced Communication	USB - RS232 (optional)				
ENVIRONMENTAL PROPERTIES					
Operation Temperature	-10°C ~ 50°C				
Relative Humidity	%0 ~ %95 (non-condensing)				
Altitude	≤ 3000 m				
Noise	≤ 55 db				
Protection Class	IP20				

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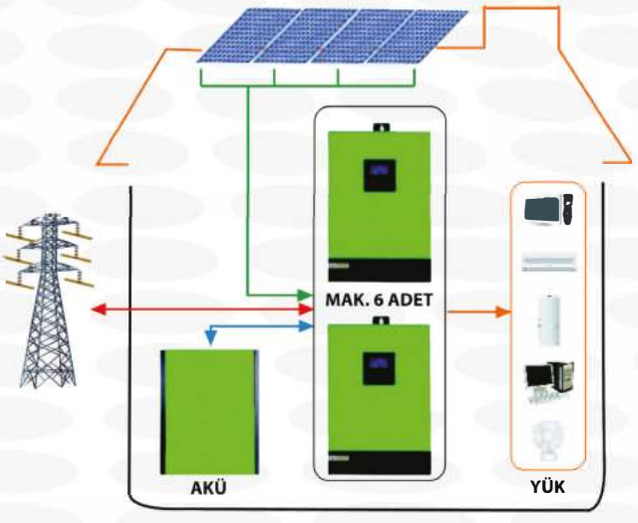

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SERVO-INV®

600 W - 3500 W
SINGLE PHASE OUTPUT

SINUSOIDAL INVERTER

GENERAL FEATURES

Pure Sinusoidal Inverter
High Frequency SPWM, Off-Grid
DSP Microprocessor Control Enhanced Performance
EMI / RFI Filter
Short Circuit, High / Low Voltage and Overload Protection

OPTIONAL FEATURES

Galvanic Isolation Transformers
Special Input / Output Options

STANDARDS

EN 62040-1 Safety , EN 62040-2 EMC , EN 62040-3 LVD ,CE, ISO 9001:2008

TECHNICAL SPECIFICATIONS

MODEL	SERVO-INV SINUS INVERTER				
POWER	600W	1000W	1600W	2500W	3500W
INPUT					
Nominal Voltage	220 VAC / 230VAC / 240 VAC				
Frequency	50 Hz / 60 Hz				
OUTPUT					
Nominal Voltage	220 VAC / 230VAC / 240 VAC ± %5				
Frequency	50 Hz / 60 Hz				
Power Factor	0.7				
Efficiency	%95				
Output Voltage THDv	≤ %5				
Transition Time	10 ms				
Output Waveform	Pure Sine				
DC OUTPUT - BATTERY					
Stand-by Power	≤ 2W				
Voltage	12VDC		24VDC		
Charge Current	30A	40A		50A	60A
Charge Mode	3 Tap				
Float Voltage	13.5 VDC / Battery				
GENERAL					
Operation Technology	Microprocessor Controlled				
Advanced Communication	USB - RS232 (optional)				
ENVIRONMENTAL PROPERTIES					
Operation Temperature	-10°C ~ 50°C				
Relative Humidity	%0 ~ %95 (non-condensing)				
Altitude	≤ 3000 m				
Noise	≤ 55 db				
Protection Class	IP20				

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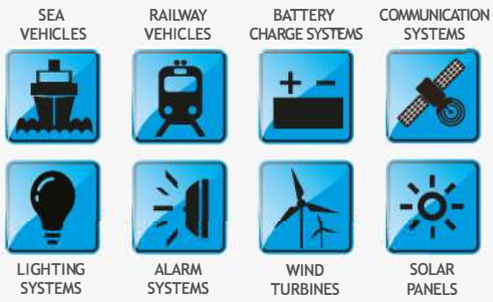
SERVO-BAT

Dry Batteries

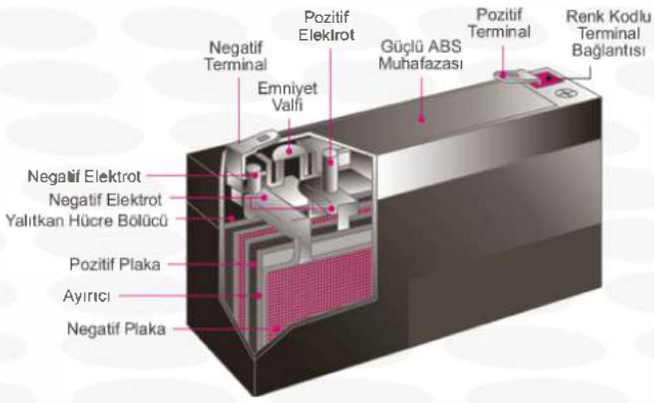


GENERAL FEATURES

Easy installation and maintenance
Sealed design
Safety valve against explosions
Vertically and horizontall usable
High quality, high reliablity
Charge feature after deep discharge
Low self discharge characteristics
Design suitable for multiple applications
3 / 5 / 8 / 10 years lifetime
Wide capacity range

Designed by valve-regulated lead-acid AGM technology. High performance plating and electrolyte contribute to high power output for general backup systems.
Sealed design batteries contain integrated regulation valve. Low self discharge and return from deep discharge provide long service lifetime. Designed for multiple applications, batteries have high quality and reliablity besides easy installation and maintenance.

Application Areas:
UPS, Safety Systems, Control Equipment, Medical Equipment, Emergency Power Systems, Electrical Devices, Alarm Systems, Toys



Uninterrupted Power
Uninterrupted Service

Uninterrupted Power
Uninterrupted Service

CERTIFICATIONS

SERVICE QUALIFICATION DOCUMENTS

TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

TS EN 60335
SERVO VOLTAGE STABILIZER

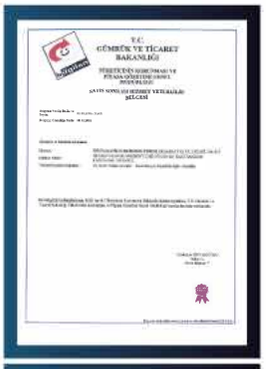
TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

TS EN 60335
STATIC VOLTAGE STABILIZER

DOMESTIC GOODS DOCUMENTS

ISO 9001

OHSAS 18001



AFTER SALES SERVICE QUALIFICATION

SERVO-MATİK
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TRADEMARK REGISTRATION

"NETPRO"
TRADEMARK REGISTRATION

"SERVO-REG"
TRADEMARK REGISTRATION

"SERVO-RED"
TRADEMARK REGISTRATION

"SERVO-LİNE"
TRADEMARK REGISTRATION

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www.kosgeb.gov.tr

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Baskı Adedi : 2500
Basım Yeri : ZİRAAT GURUP
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